

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2018 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including DWR Erosion Survey**

***San Joaquin River Basin***

<b>RD2031</b>	Overall LMA Rating	Total LMA Miles						
<b>Reclamation District No. 2031 Elliot</b>	<b>M</b>	<b>13.05</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.40		0.40	3.06%				
Trim / Thin Trees	1.22		1.22	9.35%				
Encroachments					0.76	0.08		
Animal Control	0.02		0.02	0.15%				
Erosion / Bank Caving								0.01
Seepage / Sandboils								1.41
<i>Supplemental</i>								
DWR UCIP Field Study					0.17			
DWR UCIP LMA Responsibility								
<i>LMA Totals:</i>	1.64	0.00	1.64	12.56%	0.93	0.08	0.00	1.42
<b>Unit No. 01 Stanislaus River LB</b>	Overall Unit Rating	Total Unit Miles						
<b>RD2031</b>	<b>A</b>	<b>7.07</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments					0.76	0.08		
Animal Control	0.02		0.02	0.28%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.12			
DWR UCIP LMA Responsibility								
<i>Unit Totals:</i>	0.02	0.00	0.02	0.28%	0.88	0.08	0.00	0.00
<b>Unit No. 02 San Joaquin River RB</b>	Overall Unit Rating	Total Unit Miles						
<b>RD2031</b>	<b>U</b>	<b>5.98</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.40		0.40	6.69%				
Trim / Thin Trees	1.22		1.22	20.40%				
Erosion / Bank Caving								0.01
Seepage / Sandboils								1.41
<i>Supplemental</i>								
DWR UCIP Field Study					0.05			
DWR UCIP LMA Responsibility								
<i>Unit Totals:</i>	1.62	0.00	1.62	27.09%	0.05	0.00	0.00	1.42

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2018 Levee Inspection Results**

**Reclamation District No. 2031 Elliot**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			M	

\*\* Non-receipt of Summer or Winter Inspection  
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2018 Levee Inspection Results**

**Reclamation District No. 2031 Elliot**

Waterway			Bank	Unit Miles
Unit No. 01 Stanislaus River			Left	7.07
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	5/16/2018 - 5/16/2018		10/29/2018 - 10/29/2018	
DWR Inspector	Sterling York		Sterling York	
Accompanied By	Arvid Carlson RD2031		Arvid Carlson RD2031	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD2031_01_s _ 2013_5				
Comment Code					
Inspector Comment					
LMA has a flood response plan and recent flood fight training.					

No Photos

LM Start		Rating **	A	Issue No.	6
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD2031_01_s _ 2013_6				
Comment Code					
Inspector Comment					
Supplies available on-site.					

No Photos

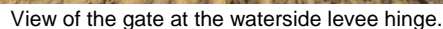
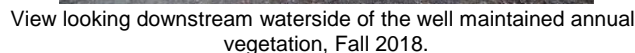
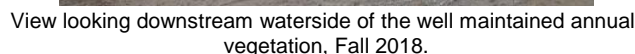
LM Start		Rating **	A	Issue No.	12
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD2031_01_s _ 2013_12				
Comment Code					
Inspector Comment					
O&M Manual available at the office.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

# Reclamation District No. 2031 Elliot

## Reclamation District No. 2031 Elliot





## Reclamation District No. 2031 Elliot

LM Start	<b>0.34</b>	Rating **	M	Issue No.	<b>7 (cont)</b>
LM End	<b>0.52</b>	Issue Type +	En	Location *	WS

Photo 1 of 3 : FA\_2018\_RD2031\_307\_7\_20180918\_00004.jpg



05/10/2011 Fence on waterside prevents access to waterside slope.

Photo 2 of 3 : FA\_2018\_RD2031\_307\_7\_20180918\_00005.jpg



View of fence obstructing access to waterside slope. Facing upstream.

Photo 3 of 3 : FA\_2018\_RD2031\_307\_7\_20180918\_00006.jpg



View of fence on waterside slope facing downstream.

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	0.35	Rating **	A/W	Issue No.	983
LM End	0.35	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.705932 °	37.705932 °
				-121.157985 °	-121.157985 °
DWR ID	20437				
Comment Code					
Inspector Comment					
FS_ID:20024					
DS_ID:20437					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 3.5 feet below the crown. Concrete U-shaped headwalls on both ends. Flap gate on the waterside (WS) end. Installed by USACE in 1966. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 0.36)].					
FS Date: 9/11/2013					

Photo 1 of 2 : UCIP\_FA\_2018\_20024\_33924.jpg



Concrete headwall on LS slope.

LM Start	<b>0.35</b>	Rating **	A/W	Issue No.	<b>983 (cont)</b>
LM End	<b>0.35</b>	Issue Type +	Ma	Location *	

Photo 2 of 2 : UCIP\_FA\_2018\_20024\_33923.jpg



Concrete headwall and flapgate on WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	0.44	Rating **	M	Issue No.	14
LM End	0.53	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.704927 °	37.703788 °
				-121.158860 °	-121.159923 °
DWR ID	DWR_RD2031_01_f_2012_14				
Comment Code					
FE : Fence					
Inspector Comment					
It appears the fence was completed without CVFPB approval.					

Photo 1 of 2 : FA\_2018\_RD2031\_307\_14\_20180918\_00009.jpg



View of fence on landside levee shoulder obstructing access to landside slope. Facing upstream.

LM Start	<b>0.44</b>	Rating **	M	Issue No.	<b>14 (cont)</b>
LM End	<b>0.53</b>	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA\_2018\_RD2031\_307\_14\_20180918\_00010.jpg



View of fence on landside levee shoulder facing downstream.

LM Start	0.51	Rating **	M	Issue No.	48
LM End	0.51	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.704041°	37.704041°
				-121.159629°	-121.159629°
DWR ID	DWR_RD2031_01_f_2015_48				
Comment Code					
MA : Material					
Inspector Comment					
Concrete dumped on the waterside slope.					

Photo 1 of 1 : FA\_2018\_RD2031\_307\_48\_20180918\_00026.jpg



View of the concrete placed on the waterside levee slope.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	0.54	Rating **	U	Issue No.	969
LM End	0.57	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.703626 °	37.703300 °
				-121.159714 °	-121.159779 °
DWR ID	DWR_RD2031_01_s _ 2012_969				
Comment Code					
BU : Building					
Inspector Comment					
Corrals and house on levee slope and crown. The Corrals do not have CVFPB permit.					

Photo 1 of 1 : FA\_2018\_RD2031\_307\_969\_20180918\_00044.jpg



View of the new coral at the landside levee slope and toe.

LM Start	0.56	Rating **	M	Issue No.	126
LM End	0.56	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.703394 °	37.703394 °
				-121.159713 °	-121.159713 °
DWR ID	DWR_RD2031_01_s _ 2014_126				
Comment Code					
MA : Material					
Inspector Comment					
Levee built up with material from adjacent field. Unpermitted. The landowner has contacted CVFPB and started the permitting process. The permit application was never submitted as of Fall 2016.					

Photo 1 of 1 : FA\_2018\_RD2031\_307\_126\_20180918\_00040.jpg



View of the material placed on the waterside levee slope to build up the levee and increase the levee crown. Spring 2014.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	0.56	Rating **	A/W	Issue No.	984
LM End	0.56	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.703323 °	37.703323 °
				-121.159771 °	-121.159771 °
DWR ID	20439				
Comment Code					
Inspector Comment					
FS_ID:20044 DS_ID:20439 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 15-inch corrugated metal drainage pipe through the levee, 9 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Drainage canal off the landside (LS) toe. This pipe replaced a 15-inch pipe at the same location. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 0.57)]. FS Date: 9/11/2013					

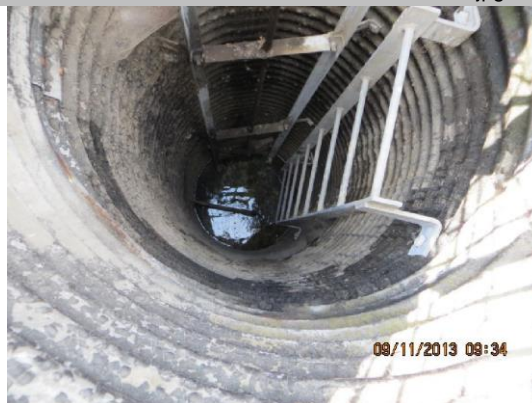
LM Start	<b>0.56</b>	Rating **	A/W	Issue No.	<b>984 (cont)</b>
LM End	<b>0.56</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_20044\_33942.jpg



36-inch CMP riser on WS shoulder.

Photo 2 of 3 : UCIP\_FA\_2018\_20044\_33941.jpg



Slide gate in CMP riser on WS shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------



# Reclamation District No. 2031 Elliot

View of the unpermitted fence on the landside levee hinge.

Page 9 of 48

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	0.63	Rating **	M	Issue No.	4
LM End	0.72	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.702814 °	37.701875 °
				-121.160562 °	-121.161670 °
DWR ID	DWR_RD2031_01_s_2012_4				
Comment Code					
FE : Fence					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD2031\_307\_4\_20180918\_00003.jpg



View of the fence at the landside levee toe.

LM Start	0.65	Rating **	M	Issue No.	35
LM End	0.65	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.702643 °	37.702643 °
				-121.160867 °	-121.160867 °
DWR ID	DWR_RD2031_01_s_2012_35				
Comment Code					
DE : Debris					
Inspector Comment					
Tractor wheels on slope of landside levee. It has been there since Spring 2012 inspection.					

Photo 1 of 1 : FA\_2018\_RD2031\_307\_35\_20180918\_00015.jpg



View of tractor wheels on landward slope. 05/02/2012

LM Start	0.67	Rating **	M	Issue No.	40
LM End	0.67	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.702424 °	37.702424 °
				-121.160946 °	-121.160946 °
DWR ID	DWR_RD2031_01_f_2016_40				
Comment Code					
LI : Landscape Irrigation					
Inspector Comment					
Appears to be a low voltage wire crossing at this location. Unpermitted. Fall 2016.					

Photo 1 of 1 : FA\_2018\_RD2031\_307\_40\_20180918\_00019.jpg



View of the wire crossing the levee about 4 to 6 inches deep into the levee slope and crown. Irrigation box identifies the crossing location.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
----------------------------------------------------------------------------------------------	--	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	-------------------------------------------------------------------------------------------------------------	--



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	0.71	Rating **	U	Issue No.	127
LM End	0.75	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.702051°	37.701445°
				-121.161502°	-121.161941°
DWR ID	DWR_RD2031_01_s_2014_127				
Comment Code					
MA : Material					
Inspector Comment					
Remove concrete stockpile from the levee toe easement.					

Photo 1 of 1 : FA\_2018\_RD2031\_307\_127\_20180918\_00041.jpg



View of the concrete debris stockpiled at the landside levee toe.

LM Start	0.72	Rating **	M	Issue No.	985
LM End	0.72	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.701912 °	37.701912 °
				-121.161642 °	-121.161642 °
DWR ID	20440				
Comment Code					
Inspector Comment					
FS_ID:20046 DS_ID:20440 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Alfalfa valve on the WS toe is damaged. FIELD_STRUCT_DESC: 30-inch corrugated metal irrigation pipe through the levee, 5 feet below the crown. Flashboard slots in concrete headwall on the landside (LS). Distribution box with an alfalfa valve on the waterside (WS). Installed by USACE in 1966. Replaced a 30-inch pipe at the same location. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968]. FS Date: 9/11/2013					

Photo 1 of 3 : UCIP\_FA\_2018\_20046\_33946.jpg



Concrete headwall and pipe at concrete channel along landside shoulder of levee.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	0.72	Rating **	M	Issue No.	985 (cont)	
LM End	0.72	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.701912 °		37.701912 °
				-121.161642 °		-121.161642 °
DWR ID	20440					
Comment Code						
Inspector Comment						
FS_ID:20046 DS_ID:20440 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Alfalfa valve on the WS toe is damaged. FIELD_STRUCT_DESC: 30-inch corrugated metal irrigation pipe through the levee, 5 feet below the crown. Flashboard slots in concrete headwall on the landside (LS). Distribution box with an alfalfa valve on the waterside (WS). Installed by USACE in 1966. Replaced a 30-inch pipe at the same location. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968]. FS Date: 9/11/2013						

LM Start	<b>0.72</b>	Rating **	M	Issue No.	<b>985 (cont)</b>
LM End	<b>0.72</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_20046\_33945.jpg



Concrete headwall and damaged alfalfa valve on WS toe.

Photo 3 of 3 : UCIP\_FA\_2018\_20046\_33944.jpg



Damaged alfalfa valve.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	0.72	Rating **	M	Issue No.	972
LM End	0.76	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.701906°	37.701370°
				-121.161661°	-121.161986°
DWR ID	DWR_RD2031_01_s_2012_972				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD2031\_307\_972\_20180918\_00045.jpg



View of the ditch on landside levee toe, facing downstream.

LM Start	0.75	Rating **	M	Issue No.	986
LM End	0.75	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.701552°	37.701552°
				-121.161883°	-121.161883°
DWR ID	20441				
Comment Code					
Inspector Comment					
FS_ID:20047 DS_ID:20441 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: This pipe appears abandoned and if so, should be done so appropriately. FIELD_STRUCT_DESC: 15-inch corrugated metal irrigation pipe through the levee, 4 feet below the crown. Flashboard slots on the landside (LS). Installed by USACE in 1966. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 0.75)]. FS Date: 9/11/2013					

Photo 1 of 3 : UCIP\_FA\_2018\_20047\_33950.jpg



Damaged CMP pipe on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	0.75	Rating **	M	Issue No.	986 (cont)	
LM End	0.75	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.701552 °	37.701552 °	
				-121.161883 °	-121.161883 °	
DWR ID	20441					
Comment Code						
Inspector Comment						
FS_ID:20047 DS_ID:20441 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: This pipe appears abandoned and if so, should be done so appropriately. FIELD_STRUCT_DESC: 15-inch corrugated metal irrigation pipe through the levee, 4 feet below the crown. Flashboard slots on the landside (LS). Installed by USACE in 1966. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 0.75)]. FS Date: 9/11/2013						

LM Start	<b>0.75</b>	Rating **	M	Issue No.	<b>986 (cont)</b>
LM End	<b>0.75</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_20047\_33949.jpg



Hole in pipe at WS slope.

Photo 3 of 3 : UCIP\_FA\_2018\_20047\_33948.jpg



Closed slidegate at concrete headwall in concrete channel on LS shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	0.77	Rating **	M	Issue No.	36
LM End	0.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.701177°	37.701177°
				-121.162055°	-121.162055°
DWR ID	DWR_RD2031_01_f_2012_36				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD2031\_307\_36\_20180918\_00016.jpg



View of rodent burrows on landside slope.

LM Start	0.80	Rating **	M	Issue No.	987
LM End	0.80	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.700853 °	37.700853 °
				-121.162349 °	-121.162349 °
DWR ID	20443				
Comment Code					
Inspector Comment					
FS_ID:20049 DS_ID:20443 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned as WS slope is covered with soil. If abandoned, it should be done so properly. FIELD_STRUCT_DESC: 24-inch steel irrigation pipe through the levee, 2 feet below the crown. Concrete headwalls on both sides of the levee crown. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 0.81)]. FS Date: 9/11/2013					

Photo 1 of 3 : UCIP\_FA\_2018\_20049\_33956.jpg



Open pipe and headwall on LS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	0.80	Rating **	M	Issue No.	987 (cont)
LM End	0.80	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.700853 °	37.700853 °
				-121.162349 °	-121.162349 °
DWR ID	20443				
Comment Code					
Inspector Comment					
FS_ID:20049					
DS_ID:20443					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe appears abandoned as WS slope is covered with soil. If abandoned, it should be done so properly.					
FIELD_STRUCT_DESC: 24-inch steel irrigation pipe through the levee, 2 feet below the crown. Concrete headwalls on both sides of the levee crown. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 0.81)].					
FS Date: 9/11/2013					

LM Start	<b>0.80</b>	Rating **	M	Issue No.	<b>987 (cont)</b>
LM End	<b>0.80</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_20049\_33955.jpg



Pipe not filled with concrete.

Photo 3 of 3 : UCIP\_FA\_2018\_20049\_33954.jpg



Concrete headwall on WS shoulder buried.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	0.82	Rating **	M	Issue No.	46
LM End	0.82	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.700614 °	37.700614 °
				-121.162574 °	-121.162574 °
DWR ID	DWR_RD2031_01_s_2018_46				
Comment Code					
PO : Pole					
Inspector Comment					
Power pole on landside levee slope.					

No Photos

LM Start	0.84	Rating **	C	Issue No.	42
LM End	0.84	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.700447 °	37.700447 °
				-121.162742 °	-121.162742 °
DWR ID	DWR_RD2031_01_f_2016_42				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
The LMA has backfilled the erosion around the irrigation riser on the landside levee slope, Fall 2018.					

No Photos

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	0.92	Rating **	M	Issue No.	988
LM End	0.92	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.699692 °	37.699692 °
				-121.163977 °	-121.163977 °
DWR ID	20444				
Comment Code					
Inspector Comment					
FS_ID:47158 DS_ID:20444 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need site visit by UCIP--Concrete headwall present on landward side toe. Need to coordinate with owner to determine if this headwall is for 24-inch pipe or if the structure is part of drainage system that could run parallel to levee. FIELD_STRUCT_DESC: 24-inch drainage pipe of an unknown material through the levee, 3.5 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 9/10/2013					

LM Start	<b>0.92</b>	Rating **	M	Issue No.	<b>988 (cont)</b>
LM End	<b>0.92</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_47158\_74940.jpg



Concrete structure located on landward side toe.

Photo 2 of 3 : UCIP\_FA\_2018\_47158\_74941.jpg



Front view of concrete structure located on landward side toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	0.92	Rating **	M	Issue No.	988 (cont)	
LM End	0.92	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.699692 °	37.699692 °	
				-121.163977 °	-121.163977 °	
DWR ID	20444					
Comment Code						
Inspector Comment						
FS_ID:47158 DS_ID:20444 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need site visit by UCIP--Concrete headwall present on landward side toe. Need to coordinate with owner to determine if this headwall is for 24-inch pipe or if the structure is part of drainage system that could run parallel to levee. FIELD_STRUCT_DESC: 24-inch drainage pipe of an unknown material through the levee, 3.5 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 9/10/2013						

Photo 3 of 3 : UCIP\_FA\_2018\_47158\_74942.jpg



Structure buried with soil--no access.

LM Start	1.00	Rating **	C	Issue No.	59
LM End	1.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.699327 °	37.699327 °
				-121.165364 °	-121.165364 °
DWR ID	DWR_RD2031_01_f_2014_59				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
LMA backfilled rodent holes, Fall 2018.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	1.16	Rating **	C	Issue No.	44
LM End	1.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.698848 °	37.698848 °
				-121.168088 °	-121.168088 °
DWR ID	DWR_RD2031_01_f_2016_44				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
LMA backfilled rodent holes, Fall 2018.					

No Photos

LM Start	1.22	Rating **	M	Issue No.	47
LM End	1.27	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.699018 °	37.699507 °
				-121.169233 °	-121.169913 °
DWR ID	DWR_RD2031_01_s_2018_47				
Comment Code					
PO : Pole					
Inspector Comment					
Three power poles on levee and levee slope.					

Photo 1 of 1 : FA\_2018\_RD2031\_307\_47\_20180918\_00025.jpg



View looking downstream landside of three power poles on the levee and levee slope.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	1.27	Rating **	M	Issue No.	989
LM End	1.27	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.699480 °	37.699480 °
				-121.169850 °	-121.169850 °
DWR ID	20445				
Comment Code					
Inspector Comment					
FS_ID:20085 DS_ID:20445 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe corroded through at distribution box. Appears abandoned and should be done so properly. FIELD_STRUCT_DESC: 1 of 2: 12-inch steel irrigation pipe through the levee, 3.3 feet below the crown. Pump missing from pile structure on the riverbank. Concrete distribution box on the landside (LS). Installed by USACE in 1966. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 1.28)]. FS Date: 9/11/2013					

Photo 1 of 3 : UCIP\_FA\_2018\_20085\_34010.jpg



Concrete distribution box on LS shoulder.

LM Start	<b>1.27</b>	Rating **	M	Issue No.	<b>989 (cont)</b>
LM End	<b>1.27</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_20085\_34009.jpg



Pump on pier on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	1.27	Rating **	M	Issue No.	989 (cont)
LM End	1.27	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.699480 °	37.699480 °
				-121.169850 °	-121.169850 °
DWR ID	20445				
Comment Code					
Inspector Comment					
FS_ID:20085 DS_ID:20445 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe corroded through at distribution box. Appears abandoned and should be done so properly. FIELD_STRUCT_DESC: 1 of 2: 12-inch steel irrigation pipe through the levee, 3.3 feet below the crown. Pump missing from pile structure on the riverbank. Concrete distribution box on the landside (LS). Installed by USACE in 1966. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 1.28)]. FS Date: 9/11/2013					

Photo 3 of 3 : UCIP\_FA\_2018\_20085\_34008.jpg



Pipe visible inside concrete distribution box on LS shoulder.

LM Start	1.41	Rating **	C	Issue No.	62
LM End	1.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.699833 °	37.699833 °
				-121.172060 °	-121.172060 °
DWR ID	DWR_RD2031_01_s_2017_62				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
The LMA has backfilled the erosion around the irrigation riser on the landside levee slope, Fall 2018.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	1.55	Rating **	A/W	Issue No.	990	
LM End	1.55	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.698921 °	37.698921 °	
				-121.174144 °	-121.174144 °	
DWR ID	20446					
Comment Code						
Inspector Comment						
FS_ID:20088						
DS_ID:20446						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 3.5 feet below the crown. Concrete headwalls on both ends. Flap gate on the waterside (WS) end. Installed by USACE in 1966. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 1.56)].						
FS Date: 9/11/2013						

Photo 1 of 3 : UCIP\_FA\_2018\_20088\_34030.jpg



Bowl shaped concrete inlet on LS slope.

LM Start	<b>1.55</b>	Rating **	A/W	Issue No.	<b>990 (cont)</b>
LM End	<b>1.55</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_20088\_34029.jpg



Bowl shaped concrete inlet on LS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	1.55	Rating **	A/W	Issue No.	990 (cont)	
LM End	1.55	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.698921 °	37.698921 °	
				-121.174144 °	-121.174144 °	
DWR ID	20446					
Comment Code						
Inspector Comment						
FS_ID:20088						
DS_ID:20446						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe						
through the levee, 3.5 feet below the crown. Concrete headwalls on						
both ends. Flap gate on the waterside (WS) end. Installed by USACE in						
1966. [Additional Reference(s): DWR Levee Log, 2005. USACE San						
Joaquin O&M Manual 4, June 1968, (HLM 1.56)].						
FS Date: 9/11/2013						

Photo 3 of 3 : UCIP\_FA\_2018\_20088\_34028.jpg



Concrete U-shaped headwall on WS slope.

LM Start	1.56	Rating **	C	Issue No.	3
LM End	1.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.698776 °	37.698776 °
				-121.174327 °	-121.174327 °
DWR ID	DWR_RD2031_01_s_2012_3				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
The LMA has backfilled the erosion around the irrigation riser on the landside levee slope, Fall 2018.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	1.58	Rating **	C	Issue No.	8
LM End	1.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.698610 °	37.698610 °
				-121.174598 °	-121.174598 °
DWR ID	DWR_RD2031_01_s _ 2012_8				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
The LMA has backfilled the erosion around the irrigation riser on the landside levee slope, Fall 2018.					

No Photos

LM Start	1.63	Rating **	C	Issue No.	9
LM End	1.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.698208 °	37.698208 °
				-121.175400 °	-121.175400 °
DWR ID	DWR_RD2031_01_s _ 2012_9				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
The LMA has backfilled the erosion around the irrigation riser on the landside levee slope, Fall 2018.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	1.78	Rating **	M	Issue No.	991
LM End	1.78	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.696958 °	37.696958 °
				-121.177464 °	-121.177464 °
DWR ID	20470				
Comment Code					
Inspector Comment					
FS_ID:41354 DS_ID:20470 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Silt buildup at inlet and outlet. FIELD_STRUCT_DESC: 1 of 2: 24-inch corrugated metal drainage pipe through the levee, 9.5 feet below the crown. Concrete U-shaped headwalls on both ends. Flap gate on the waterside (WS) end. Installed by USACE in 1966. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 1.80)]. FS Date: 9/11/2013					

LM Start	<b>1.78</b>	Rating **	M	Issue No.	<b>991 (cont)</b>
LM End	<b>1.78</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_41354\_34034.jpg



Concrete headwall on WS toe.

Photo 2 of 3 : UCIP\_FA\_2018\_41354\_34033.jpg



Concrete headwall on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	1.78	Rating **	M	Issue No.	991 (cont)	
LM End	1.78	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.696958 °	37.696958 °	
				-121.177464 °	-121.177464 °	
DWR ID	20470					
Comment Code						
Inspector Comment						
FS_ID:41354 DS_ID:20470 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Silt buildup at inlet and outlet. FIELD_STRUCT_DESC: 1 of 2: 24-inch corrugated metal drainage pipe through the levee, 9.5 feet below the crown. Concrete U-shaped headwalls on both ends. Flap gate on the waterside (WS) end. Installed by USACE in 1966. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 1.80)]. FS Date: 9/11/2013						

Photo 3 of 3 : UCIP\_FA\_2018\_41354\_34032.jpg



Concrete headwall at LS toe.

LM Start	1.78	Rating **	M	Issue No.	992
LM End	1.78	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.696943 °	37.696943 °
				-121.177470 °	-121.177470 °
DWR ID	20447				
Comment Code					
Inspector Comment					
FS_ID:20092					
DS_ID:20447					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Silt buildup at inlet and outlet.					
FIELD_STRUCT_DESC: 2 of 2: 24-inch corrugated metal drainage pipe through the levee, 9.5 feet below the crown. Concrete U-shaped headwalls on both ends. Flap gate on the waterside (WS) end. Installed by USACE in 1966. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 1.80)].					
FS Date: 9/11/2013					

Photo 1 of 3 : UCIP\_FA\_2018\_20092\_34041.jpg



Concrete U-shaped headwall on WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	1.78	Rating **	M	Issue No.	992 (cont)	
LM End	1.78	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.696943 °	37.696943 °	
				-121.177470 °	-121.177470 °	
DWR ID	20447					
Comment Code						
Inspector Comment						
FS_ID:20092						
DS_ID:20447						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Silt buildup at inlet and outlet.						
FIELD_STRUCT_DESC: 2 of 2: 24-inch corrugated metal drainage pipe through the levee, 9.5 feet below the crown. Concrete U-shaped headwalls on both ends. Flap gate on the waterside (WS) end. Installed by USACE in 1966. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 1.80)].						
FS Date: 9/11/2013						

LM Start	<b>1.78</b>	Rating **	M	Issue No.	<b>992 (cont)</b>
LM End	<b>1.78</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_20092\_34040.jpg



Concrete U-shaped headwall on LS toe.

Photo 3 of 3 : UCIP\_FA\_2018\_20092\_34039.jpg



Concrete U-shaped headwall on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	1.85	Rating **	U	Issue No.	37
LM End	1.85	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.695867 °	37.695867 °
				-121.177638 °	-121.177638 °
DWR ID	DWR_RD2031_01_s_2012_37				
Comment Code					
CR : Crops					
Inspector Comment					
Several bales of hay at toe of levee. LMA notified the landowner and still no compliance.					

Photo 1 of 1 : FA\_2018\_RD2031\_307\_37\_20180918\_00017.jpg



View of the hay bails at the waterside levee toe.

LM Start	1.86	Rating **	M	Issue No.	993
LM End	1.86	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.695737 °	37.695737 °
				-121.177533 °	-121.177533 °
DWR ID	20448				
Comment Code					
Inspector Comment					
FS_ID:20109					
DS_ID:20448					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: If abandoned it should be done so properly if not, the pipe should be cleared of soil blockage.					
FIELD_STRUCT_DESC: *ABANDONED* 24-inch drainage pipe of an unknown material through the levee, 6.8 feet below the crown. Concrete headwalls on both ends. Flap gate on the waterside (WS) end. Installed by USACE in 1966. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968].					
FS Date: 9/11/2013					

Photo 1 of 3 : UCIP\_FA\_2018\_20109\_34075.jpg



Concrete U-shaped headwall on WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	1.86	Rating **	M	Issue No.	993 (cont)	
LM End	1.86	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.695737 °	37.695737 °	
				-121.177533 °	-121.177533 °	
DWR ID	20448					
Comment Code						
Inspector Comment						
FS_ID:20109 DS_ID:20448 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: If abandoned it should be done so properly if not, the pipe should be cleared of soil blockage. FIELD_STRUCT_DESC: *ABANDONED* 24-inch drainage pipe of an unknown material through the levee, 6.8 feet below the crown. Concrete headwalls on both ends. Flap gate on the waterside (WS) end. Installed by USACE in 1966. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968]. FS Date: 9/11/2013						

Photo 2 of 3 : UCIP\_FA\_2018\_20109\_34074.jpg



Flapgate on WS toe.

LM Start	<b>1.86</b>	Rating **	M	Issue No.	<b>993 (cont)</b>
LM End	<b>1.86</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_FA\_2018\_20109\_34073.jpg



Concrete headwall on LS shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

## Reclamation District No. 2031 Elliot

Photo 1 of 1 : FA\_2018\_RD2031\_307\_49\_20180918\_00027.jpg



View of the waterside where several squirrel holes are and active rodent activity.

No Photos

No Photos

Page 31 of 48

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	2.39	Rating **	A/W	Issue No.	994
LM End	2.39	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.688676 °	37.688676 °
				-121.179622 °	-121.179622 °
DWR ID	20449				
Comment Code					
Inspector Comment					
FS_ID:20110 DS_ID:20449 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 3 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end. Flap gate on the WS end. 5-foot by 5-foot concrete riser with pump on the LS toe. Likely that concrete riser is inlet for drainage pipe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 2.41)]. FS Date: 9/11/2013					

LM Start	<b>2.39</b>	Rating **	A/W	Issue No.	<b>994 (cont)</b>
LM End	<b>2.39</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_20110\_34078.jpg



Flapgate and concrete headwall on WS toe.

Photo 2 of 3 : UCIP\_FA\_2018\_20110\_34077.jpg



Vegetation covers outlet of pipe on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	2.39	Rating **	A/W	Issue No.	994 (cont)	
LM End	2.39	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.688676 °	37.688676 °	
				-121.179622 °	-121.179622 °	
DWR ID	20449					
Comment Code						
Inspector Comment						
FS_ID:20110 DS_ID:20449 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 3 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end. Flap gate on the WS end. 5-foot by 5-foot concrete riser with pump on the LS toe. Likely that concrete riser is inlet for drainage pipe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 2.41)]. FS Date: 9/11/2013						

Photo 3 of 3 : UCIP\_FA\_2018\_20110\_34076.jpg



5'X5' concrete riser with pump on LS toe.

LM Start	2.40	Rating **	M	Issue No.	53
LM End	2.44	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.688465 °	37.688064 °
				-121.179821 °	-121.180175 °
DWR ID	DWR_RD2031_01_s_2015_53				
Comment Code					
DE : Debris					
Inspector Comment					

Photo 1 of 2 : FA\_2018\_RD2031\_307\_53\_20180918\_00030.jpg



View of the debris at the landside levee toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	2.40	Rating **	M	Issue No.	53 (cont)	
LM End	2.44	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.688465 °	37.688064 °	
				-121.179821 °	-121.180175 °	
DWR ID	DWR_RD2031_01_s_2015_53					
Comment Code						
DE : Debris						
Inspector Comment						

Photo 2 of 2 : FA\_2018\_RD2031\_307\_53\_20180918\_00031.jpg



View of another debris pile in close proximity of the previous photo.

LM Start	2.45	Rating **	M	Issue No.	995	
LM End	2.45	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.687949 °	37.687949 °	
				-121.180305 °	-121.180305 °	
DWR ID	24669					
Comment Code						
Inspector Comment						
FS_ID:51340 DS_ID:24669 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/16/2016 No access to WS due to cattle fence in place. Need to coordinate with property owner to obtain access on WS. Unable to find inlet on LS. Reommand internal inspection of crossing. Crossing has been downgraded from Urgent to Non-Urgent no signs of leaks where present on crown or slopes where pipe should be. (O. Magana - DWR UCIP)09/11/2013 Flapgate partially blocked by soil on WS toe. Good candidate for video inspection. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, at an unknown depth. Flap gate on the waterside (WS) toe. Pipe may originate at a concrete distribution box on the landside (LS) toe. FS Date: 11/16/2016						

Photo 1 of 3 : UCIP\_FA\_2018\_51340\_39002.jpg



Flapgate and pipe visible on WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	2.45	Rating **	M	Issue No.	995 (cont)	
LM End	2.45	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.687949 °	37.687949 °	
				-121.180305 °	-121.180305 °	
DWR ID	24669					
Comment Code						
Inspector Comment						
FS_ID:51340 DS_ID:24669 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/16/2016 No access to WS due to cattle fence in place. Need to coordinate with property owner to obtain access on WS. Unable to find inlet on LS. Reommand internal inspection of crossing. Crossing has been downgraded from Urgent to Non-Urgent no signs of leaks where present on crown or slopes where pipe should be. (O. Magana - DWR UCIP)09/11/2013 Flapgate partially blocked by soil on WS toe. Good candidate for video inspection. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, at an unknown depth. Flap gate on the waterside (WS) toe. Pipe may originate at a concrete distribution box on the landside (LS) toe. FS Date: 11/16/2016						

LM Start	<b>2.45</b>	Rating **	M	Issue No.	<b>995 (cont)</b>
LM End	<b>2.45</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_51340\_76567.jpg



Overview of levee crown where pipe should cross levee. Limited access on WS due to fence.

Photo 3 of 3 : UCIP\_FA\_2018\_51340\_39001.jpg



Flapgate partially blocked by soil on WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	2.62	Rating **	C	Issue No.	45
LM End	2.62	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.687146°	37.687146°
				-121.183152°	-121.183152°
DWR ID	DWR_RD2031_01_f_2012_45				
Comment Code					
CR : Crops					
Inspector Comment					
Hay bale on waterside levee slope.					

No Photos

LM Start	3.08	Rating **	M	Issue No.	996
LM End	3.08	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.688297 °	37.688297 °
				-121.190865 °	-121.190865 °
DWR ID	20451				
Comment Code					
Inspector Comment					
FS_ID:20449 DS_ID:20451 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears to be abandoned and if so should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 3.11)]. FS Date: 9/11/2013					

Photo 1 of 3 : UCIP\_FA\_2018\_20449\_34506.jpg



Slide gate in CMP riser on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	3.08	Rating **	M	Issue No.	996 (cont)	
LM End	3.08	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.688297 °	37.688297 °	
				-121.190865 °	-121.190865 °	
DWR ID	20451					
Comment Code						
Inspector Comment						
FS_ID:20449 DS_ID:20451 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears to be abandoned and if so should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 3.11)]. FS Date: 9/11/2013						

LM Start	<b>3.08</b>	Rating **	M	Issue No.	<b>996 (cont)</b>
LM End	<b>3.08</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_20449\_34505.jpg



Pipe not visible on LS toe.

Photo 3 of 3 : UCIP\_FA\_2018\_20449\_34504.jpg



Slide gate in CMP riser on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	3.17	Rating **	M	Issue No.	55
LM End	3.28	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.689368 °	37.690829 °
				-121.191680 °	-121.192511 °
DWR ID	DWR_RD2031_01_f_2013_55				
Comment Code					
AT : Agricultural tilling					
Inspector Comment					
Landside levee toe has about 12 inch vertical cut.					

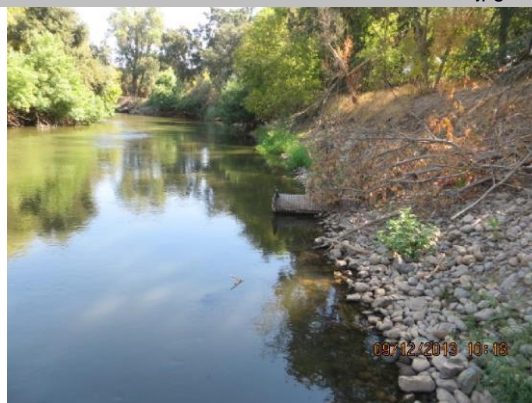
Photo 1 of 1 : FA\_2018\_RD2031\_307\_55\_20180918\_00032.jpg



View of the levee toe cut. Looking downstream.

LM Start	3.66	Rating **	M	Issue No.	997	
LM End	3.66	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.689900 °	37.689900 °	
				-121.198319 °	-121.198319 °	
DWR ID	20478					
Comment Code						
Inspector Comment						
FS_ID:23064						
DS_ID:20478						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Good candidate for video inspection.						
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 5.5 feet below the crown. Flap gate visible at the waterside (WS) toe. [Additional Reference(s): USACE San Joaquin O&M Manual 4, June 1968, (HLM 3.7), listed as a 20-inch pipe, 3.9 feet below the crown].						
FS Date: 9/12/2013						

Photo 1 of 2 : UCIP\_FA\_2018\_23064\_39200.jpg



CMP pipe and flapgate visible at WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	3.66	Rating **	M	Issue No.	997 (cont)	
LM End	3.66	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.689900 °	37.689900 °	
				-121.198319 °	-121.198319 °	
DWR ID	20478					
Comment Code						
Inspector Comment						
FS_ID:23064						
DS_ID:20478						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Good candidate for video inspection.						
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 5.5 feet below the crown. Flap gate visible at the waterside (WS) toe. [Additional Reference(s): USACE San Joaquin O&M Manual 4, June 1968, (HLM 3.7), listed as a 20-inch pipe, 3.9 feet below the crown].						
FS Date: 9/12/2013						

Photo 2 of 2 : UCIP\_FA\_2018\_23064\_39199.jpg



CMP pipe and flapgate visible at WS toe.

LM Start	3.69	Rating **	M	Issue No.	998
LM End	3.69	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.689742 °	37.689742 °
				-121.198778 °	-121.198778 °
DWR ID	24672				
Comment Code					
Inspector Comment					
FS_ID:22843 DS_ID:24672 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this possible crossing. FIELD_STRUCT_DESC: 4-inch steel irrigation pipe through the levee, at an unknown depth. Pipe visible between larger irrigation pipes below slant pump on the waterside (WS) slope. FS Date: 9/12/2013					

Photo 1 of 2 : UCIP\_FA\_2018\_22843\_39015.jpg



Pipe visible between larger irrigation pipes below slant pump on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	3.69	Rating **	M	Issue No.	998 (cont)	
LM End	3.69	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.689742 °	37.689742 °	
				-121.198778 °	-121.198778 °	
DWR ID	24672					
Comment Code						
Inspector Comment						
FS_ID:22843 DS_ID:24672 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this possible crossing. FIELD_STRUCT_DESC: 4-inch steel irrigation pipe through the levee, at an unknown depth. Pipe visible between larger irrigation pipes below slant pump on the waterside (WS) slope. FS Date: 9/12/2013						

Photo 2 of 2 : UCIP\_FA\_2018\_22843\_39014.jpg



Pipe visible between larger irrigation pipes below slant pump on WS slope.

LM Start	3.69	Rating **	M	Issue No.	999	
LM End	3.69	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.689739 °		37.689739 °
				-121.198790 °		-121.198790 °
DWR ID	20456					
Comment Code						
Inspector Comment						
FS_ID:20667						
DS_ID:20456						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Siphon breaker missing from LS shoulder. Fish screen and pipe end covered in debris that may cause damage to pipe.						
FIELD_STRUCT_DESC: 1 of 2: 20-inch steel irrigation pipe through the levee, 3.9 feet below the crown. Slant pump in pump house mounted on piles on the berm. Siphon breaker in a corrugated metal pipe (CMP) riser on the landside (LS) shoulder. Service pole on the LS slope. 5-foot by 5-foot concrete distribution box on the LS toe with flap gate.						
[Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 3.70)].						
FS Date: 9/12/2013						

Photo 1 of 3 : UCIP\_FA\_2018\_20667\_34750.jpg



Concrete distribution box on LS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	3.69	Rating **	M	Issue No.	999 (cont)	
LM End	3.69	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.689739 °	37.689739 °	
				-121.198790 °	-121.198790 °	
DWR ID	20456					
Comment Code						
Inspector Comment						
FS_ID:20667						
DS_ID:20456						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Siphon breaker missing from LS shoulder. Fish screen and pipe end covered in debris that may cause damage to pipe.						
FIELD_STRUCT_DESC: 1 of 2: 20-inch steel irrigation pipe through the levee, 3.9 feet below the crown. Slant pump in pump house mounted on piles on the berm. Siphon breaker in a corrugated metal pipe (CMP) riser on the landside (LS) shoulder. Service pole on the LS slope. 5-foot by 5-foot concrete distribution box on the LS toe with flap gate.						
[Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 3.70)].						
FS Date: 9/12/2013						

LM Start	<b>3.69</b>	Rating **	M	Issue No.	<b>999 (cont)</b>
LM End	<b>3.69</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_20667\_34749.jpg



Slant pump in pump house on WS berm.

Photo 3 of 3 : UCIP\_FA\_2018\_20667\_34748.jpg



Pipe with debris flow buildup at inlet visible on WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	3.69	Rating **	M	Issue No.	1000
LM End	3.69	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.689757 °	37.689757 °
				-121.198804 °	-121.198804 °
DWR ID	24671				
Comment Code					
Inspector Comment					
FS_ID:22845 DS_ID:24671 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this possible crossing. FIELD_STRUCT_DESC: 2.5-inch galvanized iron irrigation pipe through the levee, at an unknown depth. Submersible pump on the waterside (WS) slope. FS Date: 9/12/2013					

LM Start	<b>3.69</b>	Rating **	M	Issue No.	<b>1000 (cont)</b>
LM End	<b>3.69</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_22845\_39021.jpg



Pipe visible on WS of pumphouse.

Photo 2 of 3 : UCIP\_FA\_2018\_22845\_39020.jpg



Pipe and appurtenances visible on downstream side of and next to larger irrigation pipe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	<b>3.69</b>	Rating **	M	Issue No.	<b>1000 (cont)</b>
LM End	<b>3.69</b>	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.689757 °	37.689757 °
				-121.198804 °	-121.198804 °
DWR ID	24671				
Comment Code					
Inspector Comment					
FS_ID:22845 DS_ID:24671 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this possible crossing. FIELD_STRUCT_DESC: 2.5-inch galvanized iron irrigation pipe through the levee, at an unknown depth. Submersible pump on the waterside (WS) slope. FS Date: 9/12/2013					

Photo 3 of 3 : UCIP\_FA\_2018\_22845\_39019.jpg



Pipe and appurtenances visible on downstream side of and next to larger irrigation pipe.

LM Start	<b>3.69</b>	Rating **	C	Issue No.	<b>33</b>
LM End	<b>4.24</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.689718 °	37.687811 °
				-121.198833 °	-121.205659 °
DWR ID	DWR_RD2031_01_f_2016_33				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
The woody vegetation has been trimmed back at least 15 feet away from the landside levee toe, Fall 2018.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	3.78	Rating **	C	Issue No.	57
LM End	3.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.690302 °	37.690664 °
				-121.200232 °	-121.200549 °
DWR ID	DWR_RD2031_01_f_2015_57				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion at the landside levee toe no longer exist and the vertical cut has been removed, Fall 2018.					

No Photos

LM Start	4.40	Rating **	M	Issue No.	1001
LM End	4.40	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.686500 °	37.686500 °
				-121.207900 °	-121.207900 °
DWR ID	24673				
Comment Code					
Inspector Comment					
FS_ID:22846 DS_ID:24673 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this possible crossing. FIELD_STRUCT_DESC: 4-inch galvanized iron irrigation pipe visible on the waterside (WS) shoulder. Pipe may go through the levee, at an unknown depth. Vent on the WS shoulder. FS Date: 9/12/2013					

Photo 1 of 2 : UCIP\_FA\_2018\_22846\_39023.jpg



Pipe and vent visible on WS shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	4.40	Rating **	M	Issue No.	1001 (cont)
LM End	4.40	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.686500 °	37.686500 °
				-121.207900 °	-121.207900 °
DWR ID	24673				
Comment Code					
Inspector Comment					
FS_ID:22846 DS_ID:24673 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this possible crossing. FIELD_STRUCT_DESC: 4-inch galvanized iron irrigation pipe visible on the waterside (WS) shoulder. Pipe may go through the levee, at an unknown depth. Vent on the WS shoulder. FS Date: 9/12/2013					

Photo 2 of 2 : UCIP\_FA\_2018\_22846\_39022.jpg



Pipe and vent visible on WS shoulder.

LM Start	4.41	Rating **	A/W	Issue No.	1002
LM End	4.41	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.686290 °	37.686290 °
				-121.208000 °	-121.208000 °
DWR ID	20458				
Comment Code					
Inspector Comment					
FS_ID:20683 DS_ID:20458 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: *ABANDONED* 1 of 2: 14-inch concrete encased steel drainage pipe through the levee, 7.5 feet below the crown. Plate welded on the waterside (WS) end. 6-foot by 12-foot concrete distribution box on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 4.46)]. FS Date: 9/12/2013					

Photo 1 of 3 : UCIP\_FA\_2018\_20683\_34782.jpg



Pipe visible inside pumphouse on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	4.41	Rating **	A/W	Issue No.	1002 (cont)	
LM End	4.41	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.686290 °		37.686290 °
				-121.208000 °		-121.208000 °
DWR ID	20458					
Comment Code						
Inspector Comment						
FS_ID:20683 DS_ID:20458 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: *ABANDONED* 1 of 2: 14-inch concrete encased steel drainage pipe through the levee, 7.5 feet below the crown. Plate welded on the waterside (WS) end. 6-foot by 12-foot concrete distribution box on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 4.46)]. FS Date: 9/12/2013						

LM Start	<b>4.41</b>	Rating **	A/W	Issue No.	<b>1002 (cont)</b>
LM End	<b>4.41</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_20683\_34781.jpg



Welded steel plate over WS end of pipe.

Photo 3 of 3 : UCIP\_FA\_2018\_20683\_34780.jpg



Concrete distribution box on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

# Reclamation District No. 2031 Elliot

No Photos

No Photos

Page 47 of 48

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/29/2018 10/29/2018	Sterling York

LM Start	4.97	Rating **	M	Issue No.	1003	
LM End	4.97	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.680103	°	37.680103
				-121.212016	°	-121.212016
DWR ID	20461					
Comment Code						
Inspector Comment						
FS_ID:20688						
DS_ID:20461						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: CMP riser on WS slope is missing lid and may be a hazard.						
FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 11 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. 5-foot by 5-foot concrete distribution box, 10 feet from the WS toe.						
Underground irrigation system on the landside (LS) with concrete standpipes visible in field. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 5.02)].						
FS Date: 9/12/2013						

LM Start	<b>4.97</b>	Rating **	M	Issue No.	<b>1003 (cont)</b>
LM End	<b>4.97</b>	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP\_FA\_2018\_20688\_34799.jpg



Concrete standpipes visible in field off LS toe.

Photo 2 of 2 : UCIP\_FA\_2018\_20688\_34798.jpg



Slide gate in CMP riser on WS shoulder with concrete distribution box visible in background at WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2018 Levee Inspection Results**

**Reclamation District No. 2031 Elliot**

Waterway			Bank	Unit Miles
Unit No. 02 San Joaquin River			Right	5.98
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>U</b>	
Date of Inspection	5/16/2018 - 5/16/2018		10/29/2018 - 10/29/2018	
DWR Inspector	Sterling York		Sterling York	
Accompanied By	Arvid Carlson RD2031		Arvid Carlson RD2031	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/29/2018 10/29/2018	Sterling York

LM Start	0.16	Rating **	A	Issue No.	16
LM End	5.96	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.659685 °	37.630752 °
				-121.233866 °	-121.159454 °
DWR ID	DWR_RD2031_02_f_2018_16				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD2031\_308\_16\_20181108\_00048.jpg



View looking upstream waterside of the well maintained annual vegetation, Fall 2018.

LM Start	0.16	Rating **	A	Issue No.	15
LM End	5.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.659683 °	37.630752 °
				-121.233865 °	-121.159454 °
DWR ID	DWR_RD2031_02_f_2018_15				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD2031\_308\_15\_20181108\_00050.jpg



View looking upstream landside of the well maintained annual vegetation, Fall 2018.

LM Start	0.18	Rating **	C	Issue No.	20
LM End	0.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.659394 °	37.659394 °
				-121.234020 °	-121.234020 °
DWR ID	DWR_RD2031_02_s_2017_20				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Shrubs have been removed from the levee toe to allow visibility and access, Fall 2018.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/29/2018 10/29/2018	Sterling York

LM Start	0.20	Rating **	A/W	Issue No.	19
LM End	0.35	Issue Type +	Ob	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.659110 °	37.657127 °
				-121.234140 °	-121.235095 °
DWR ID	DWR_RD2031_02_f _ 2017_19				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:121					
Site Designation:341-100					
Repair Type: Seepage					
Rating:					
Field Date:					
Notes:					

No Photos

LM Start	0.22	Rating **	A/W	Issue No.	967
LM End	0.22	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.658888 °	37.658888 °
				-121.234274 °	-121.234274 °
DWR ID	20482				
Comment Code					
Inspector Comment					
FS_ID:20703					
DS_ID:20482					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 1 of 2: 24-inch steel drainage pipe through the levee, 3.6 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end. Flap gate on the WS end. Pump on pile structure on the landside (LS). [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 0.24)].					
FS Date: 9/12/2013					

Photo 1 of 3 : UCIP\_FA\_2018\_20703\_34822.jpg



Pump on platform at LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/29/2018 10/29/2018	Sterling York

LM Start	0.22	Rating **	A/W	Issue No.	967 (cont)	
LM End	0.22	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.658888 °	37.658888 °	
				-121.234274 °	-121.234274 °	
DWR ID	20482					
Comment Code						
Inspector Comment						
FS_ID:20703						
DS_ID:20482						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 1 of 2: 24-inch steel drainage pipe through the levee, 3.6 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end. Flap gate on the WS end. Pump on pile structure on the landside (LS). [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 0.24)].						
FS Date: 9/12/2013						

LM Start	<b>0.22</b>	Rating **	A/W	Issue No.	<b>967 (cont)</b>
LM End	<b>0.22</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_20703\_34821.jpg



Pond at outlet on WS toe.

Photo 3 of 3 : UCIP\_FA\_2018\_20703\_34820.jpg



Concrete U-shaped headwall with flapgate on WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/29/2018 10/29/2018	Sterling York

LM Start	0.22	Rating **	A/W	Issue No.	968
LM End	0.22	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.658875 °	37.658875 °
				-121.234280 °	-121.234280 °
DWR ID	20508				
Comment Code					
Inspector Comment					
FS_ID:20704 DS_ID:20508 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 2 of 2: 24-inch steel drainage pipe through the levee, 3.6 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end, and a concrete headwall at the landside (LS) toe. Flap gate on the WS end. Pump on pile structure on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 0.24)]. FS Date: 9/12/2013					

LM Start	<b>0.22</b>	Rating **	A/W	Issue No.	<b>968 (cont)</b>
LM End	<b>0.22</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_20704\_34826.jpg



Pump on pier on LS toe with shed at pump walkway.

Photo 2 of 3 : UCIP\_FA\_2018\_20704\_34825.jpg



Pond at outlet on WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/29/2018 10/29/2018	Sterling York

LM Start	0.22	Rating **	A/W	Issue No.	968 (cont)
LM End	0.22	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.658875 °	37.658875 °
				-121.234280 °	-121.234280 °
DWR ID	20508				
Comment Code					
Inspector Comment					
FS_ID:20704 DS_ID:20508 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 2 of 2: 24-inch steel drainage pipe through the levee, 3.6 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end, and a concrete headwall at the landside (LS) toe. Flap gate on the WS end. Pump on pile structure on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 0.24)]. FS Date: 9/12/2013					

Photo 3 of 3 : UCIP\_FA\_2018\_20704\_34824.jpg



Flap gate at Concrete outlet on WS toe.

LM Start	0.24	Rating **	M	Issue No.	969	
LM End	0.24	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.658595 °		37.658595 °
				-121.234410 °		-121.234410 °
DWR ID	20484					
Comment Code						
Inspector Comment						
FS_ID:52629 DS_ID:20484 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Inlet filled with soil. FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, 22.8 feet below the crown. Slide gate in a 5-foot-diameter corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwalls on both ends. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 0.26)]. FS Date: 5/17/2018						

Photo 1 of 3 : UCIP\_FA\_2018\_52629\_77560.jpg



5/17/2018- Newly installed lid.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/29/2018 10/29/2018	Sterling York

LM Start	0.24	Rating **	M	Issue No.	969 (cont)	
LM End	0.24	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.658595 °		37.658595 °
				-121.234410 °		-121.234410 °
DWR ID	20484					
Comment Code						
Inspector Comment						
FS_ID:52629 DS_ID:20484 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Inlet filled with soil. FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, 22.8 feet below the crown. Slide gate in a 5-foot-diameter corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwalls on both ends. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 0.26)]. FS Date: 5/17/2018						

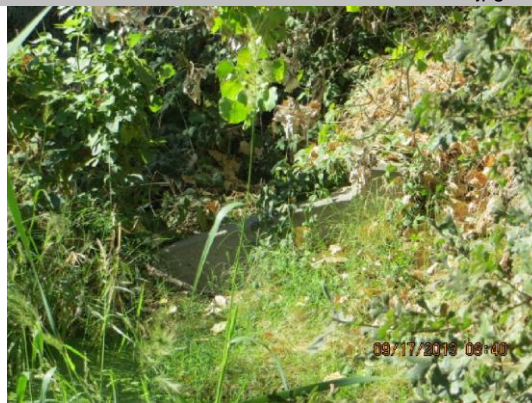
LM Start	<b>0.24</b>	Rating **	M	Issue No.	<b>969 (cont)</b>
LM End	<b>0.24</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_52629\_34834.jpg



Slide gate in CMP riser on WS slope.

Photo 3 of 3 : UCIP\_FA\_2018\_52629\_34833.jpg



Concrete headwall on LS toe at edge of pond.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/29/2018 10/29/2018	Sterling York

LM Start	0.33	Rating **	U	Issue No.	22
LM End	0.33	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Seepage / Sandboils			37.657380 °	37.657380 °
				-121.235006 °	-121.235006 °
DWR ID	DWR_RD2031_02_s_2017_22				
Comment Code					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD2031\_308\_22\_20180918\_00009.jpg



View of the sack rings at the levee toe.

LM Start	0.75	Rating **	U	Issue No.	24
LM End	1.11	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Seepage / Sandboils			37.653954°	37.651915°
				-121.229623°	-121.223617°
DWR ID	DWR_RD2031_02_s_2017_24				
Comment Code					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD2031\_308\_24\_20180918\_00010.jpg



View of the seepage at the levee toe.

LM Start	0.77	Rating **	C	Issue No.	18	
LM End	0.77	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Trim / Thin Trees			37.653832 °		37.653832 °
				-121.229311 °		-121.229311 °
DWR ID	DWR_RD2031_02_s_2018_18					
Comment Code						
T1 : Trim trees to at least five feet above ground level.						
Inspector Comment						
Fallen tree from levee slope has been removed, Fall 2018.						

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/29/2018 10/29/2018	Sterling York

LM Start	<b>0.78</b>	Rating **	A/W	Issue No.	<b>23</b>
LM End	<b>1.00</b>	Issue Type +	Ob	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.653770°	37.652530°
				-121.229140°	-121.225450°
DWR ID	DWR_RD2031_02_f_2017_23				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Site ID No:123 Site Designation:DWR_RD2031_01_R_2012_01 Repair Type: Seepage Rating: Field Date: Notes:					

No Photos

LM Start	<b>1.56</b>	Rating **	A/W	Issue No.	<b>32</b>
LM End	<b>1.65</b>	Issue Type +	Ob	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.645950°	37.644680°
				-121.220260°	-121.220530°
DWR ID	DWR_RD2031_02_f_2017_32				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Site ID No:122 Site Designation:341-101 Repair Type: Seepage Rating: Field Date: Notes:					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/29/2018 10/29/2018	Sterling York

LM Start	1.58	Rating **	U	Issue No.	27
LM End	2.33	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Seepage / Sandboils			37.645656 °	37.640520 °
				-121.220463 °	-121.218078 °
DWR ID	DWR_RD2031_02_s_2017_27				
Comment Code					
Inspector Comment					

Photo 1 of 2 : FA\_2018\_RD2031\_308\_27\_20180918\_00012.jpg



Another view of the seepage at the levee toe.

LM Start	<b>1.58</b>	Rating **	U	Issue No.	<b>27 (cont)</b>
LM End	<b>2.33</b>	Issue Type +	Ob	Location *	LS

Photo 2 of 2 : FA\_2018\_RD2031\_308\_27\_20180918\_00013.jpg



View of the seepage and boils at the levee toe.

LM Start	2.14	Rating **	M	Issue No.	30
LM End	2.34	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.640632°	37.640217°
				-121.221539°	-121.217870°
DWR ID	DWR_RD2031_02_s_2017_30				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
The landside slope is unmaintained but the excessive vegetation that was obstructing visibility and access has been knocked down.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/29/2018 10/29/2018	Sterling York

LM Start	2.14	Rating **	M	Issue No.	31
LM End	2.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.640632 °	37.640217 °
				-121.221539 °	-121.217870 °
DWR ID	DWR_RD2031_02_s_2017_31				
Comment Code					
Inspector Comment					
The vegetation on the slope is being removed for visibility and access but not completed, Fall 2018.					

No Photos

LM Start	2.27	Rating **	U	Issue No.	26
LM End	2.28	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.640371 °	37.640340 °
				-121.219254 °	-121.218974 °
DWR ID	DWR_RD2031_02_f_2014_26				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD2031\_308\_26\_20180918\_00011.jpg



View of the caving bank on the waterside facing upstream.

LM Start	2.35	Rating **	M	Issue No.	966
LM End	3.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.640228 °	37.638301 °
				-121.217766 °	-121.196465 °
DWR ID	DWR_RD2031_02_s_2012_966				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Obstructive trees and vegetation along highway are on the landside slope of the levee.					

No Photos

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
---------------------------------------------------------------------------------------	--	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	------------------------------------------------------------------------------------------------------	--

# Reclamation District No. 2031 Elliot

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/29/2018 10/29/2018	Sterling York

LM Start	2.72	Rating **	M	Issue No.	970 (cont)	
LM End	2.72	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.637760 °	37.637760 °	
				-121.211743 °	-121.211743 °	
DWR ID	20490					
Comment Code						
Inspector Comment						
FS_ID:20713 DS_ID:20490 EP_NO: 11758 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe rusted through and failing at WS toe. Good indicator of internal condition of pipe. Good candidate for video inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 17 feet below the crown. 20-inch steel pipe and 1.25-inch galvanized conduit sleeved through the 24-inch pipe. Annular space pressure grouted. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the landside (LS) slope. 36-inch concrete standpipe at the LS toe with pump on a 48-inch steel standpipe. (20-inch and 1.5-inch pipes installed under Permit No. 11758, 1976 - Faith Ranch). [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 2.75)]. FS Date: 9/17/2013						

Photo 3 of 3 : UCIP\_FA\_2018\_20713\_34836.jpg



Slide gate in 48-inch CMP riser on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/29/2018 10/29/2018	Sterling York

LM Start	3.21	Rating **	M	Issue No.	971	
LM End	3.21	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.638185 °	37.638185 °	
				-121.202906 °	-121.202906 °	
DWR ID	20492					
Comment Code						
Inspector Comment						
FS_ID:20719 DS_ID:20492 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Annular space between 20-inch and 24-inch pipe not grouted. FIELD_STRUCT_DESC: 24-inch steel irrigation pipe through the levee, 8 feet below the crown. 20-inch steel pipe sleeved through the 24-inch pipe. Pump on pile structure in river. 4-foot by 11-foot concrete distribution box on the landside (LS) toe. 2-inch electrical conduit at the same location. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 3.24)]. FS Date: 9/17/2013						

LM Start	<b>3.21</b>	Rating **	M	Issue No.	<b>971 (cont)</b>
LM End	<b>3.21</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_20719\_34860.jpg



24-inch with 20-inch sleeved through it.

Photo 2 of 3 : UCIP\_FA\_2018\_20719\_34859.jpg



Concrete distribution box on LS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/29/2018 10/29/2018	Sterling York

LM Start	3.21	Rating **	M	Issue No.	971 (cont)	
LM End	3.21	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.638185 °	37.638185 °	
				-121.202906 °	-121.202906 °	
DWR ID	20492					
Comment Code						
Inspector Comment						
FS_ID:20719 DS_ID:20492 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Annular space between 20-inch and 24-inch pipe not grouted. FIELD_STRUCT_DESC: 24-inch steel irrigation pipe through the levee, 8 feet below the crown. 20-inch steel pipe sleeved through the 24-inch pipe. Pump on pile structure in river. 4-foot by 11-foot concrete distribution box on the landside (LS) toe. 2-inch electrical conduit at the same location. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 3.24)]. FS Date: 9/17/2013						

Photo 3 of 3 : UCIP\_FA\_2018\_20719\_34858.jpg



Concrete distribution box off LS toe.

LM Start	3.76	Rating **	A/W	Issue No.	972
LM End	3.76	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.638063 °	37.638063 °
				-121.192917 °	-121.192917 °
DWR ID	20507				
Comment Code					
Inspector Comment					
FS_ID:20723					
DS_ID:20507					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 5-foot by 5-foot reinforced concrete box drainage culvert semi-through the levee, 11 feet below the crown. 30-inch pipe runs through the culvert. Drop inlet next to concrete headwall on the landside (LS) toe. [Additional Reference(s): USACE San Joaquin O&M Manual 4, June 1968, (HLM 3.80)].					
FS Date: 9/17/2013					

Photo 1 of 3 : UCIP\_FA\_2018\_20723\_34882.jpg



Flap gate on CMP pipe at WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/29/2018 10/29/2018	Sterling York

LM Start	3.76	Rating **	A/W	Issue No.	972 (cont)
LM End	3.76	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.638063 °	37.638063 °
				-121.192917 °	-121.192917 °
DWR ID	20507				
Comment Code					
Inspector Comment					
FS_ID:20723					
DS_ID:20507					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 5-foot by 5-foot reinforced concrete box drainage culvert semi-through the levee, 11 feet below the crown. 30-inch pipe runs through the culvert. Drop inlet next to concrete headwall on the landside (LS) toe. [Additional Reference(s): USACE San Joaquin O&M Manual 4, June 1968, (HLM 3.80)].					
FS Date: 9/17/2013					

LM Start	<b>3.76</b>	Rating **	A/W	Issue No.	<b>972 (cont)</b>
LM End	<b>3.76</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_20723\_34881.jpg



Concrete headwall on LS toe.

Photo 3 of 3 : UCIP\_FA\_2018\_20723\_34880.jpg



Drop inlet on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/29/2018 10/29/2018	Sterling York

LM Start	3.79	Rating **	A/W	Issue No.	973	
LM End	3.79	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.637998 °	37.637998 °	
				-121.192535 °	-121.192535 °	
DWR ID	20495					
Comment Code						
Inspector Comment						
FS_ID:20725 DS_ID:20495 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9 feet below the crown. Concrete U-shaped headwall and flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 3.82)]. FS Date: 9/17/2013						

No Photos

LM Start	3.84	Rating **	A/W	Issue No.	974
LM End	3.84	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.637924 °	37.637924 °
				-121.191600 °	-121.191600 °
DWR ID	20496				
Comment Code					
Inspector Comment					
FS_ID:51374 DS_ID:20496 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 11/16/2016 Crossing has been downgraded from Urgent to No Action Needed debris has been cleared from both WS and LS. (O. Magana - DWR UCIP)09/17/2013 Minor debris blocking closure of flapgate on WS toe. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11 feet below the crown. Concrete U-shaped headwalls on each end. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 3.88), Drawing No. 07-04-1666, Sheets 1666/23 and 1666/53, (Station 2+38S.T)]. FS Date: 11/16/2016					

Photo 1 of 3 : UCIP\_FA\_2018\_51374\_34886.jpg



Concrete headwall on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/29/2018 10/29/2018	Sterling York

LM Start	3.84	Rating **	A/W	Issue No.	974 (cont)	
LM End	3.84	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.637924 °	37.637924 °	
				-121.191600 °	-121.191600 °	
DWR ID	20496					
Comment Code						
Inspector Comment						
FS_ID:51374						
DS_ID:20496						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 11/16/2016 Crossing has been downgraded from						
Urgent to No Action Needed debris has been cleared from both WS and						
LS. (O. Magana - DWR UCIP)09/17/2013 Minor debris blocking						
closure of flapgate on WS toe. (W. Wylie - DWR UCIP)						
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe						
through the levee, 11 feet below the crown. Concrete U-shaped						
headwalls on each end. Flap gate on the waterside (WS) end.						
[Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin						
O&M Manual 4, June 1968, (HLM 3.88), Drawing No. 07-04-1666,						
Sheets 1666/23 and 1666/53, (Station 2+38S.T)].						
FS Date: 11/16/2016						

LM Start	<b>3.84</b>	Rating **	A/W	Issue No.	<b>974 (cont)</b>
LM End	<b>3.84</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_51374\_34885.jpg



Concrete headwall on WS toe.

Photo 3 of 3 : UCIP\_FA\_2018\_51374\_34884.jpg



Flapgate on WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/29/2018 10/29/2018	Sterling York

LM Start	3.84	Rating **	A	Issue No.	17
LM End	3.84	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.637916 °	37.637916 °
				-121.191595 °	-121.191595 °
DWR ID	DWR_RD2031_02_f __ 2016_17				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
This ramp is used by the farmer regularly, the slope does not show any signs of separation, loss of soil, or instability but should be monitored if the ramp becomes rutted, Fall 2018.					

No Photos

LM Start	4.16	Rating **	A/W	Issue No.	975
LM End	4.16	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.633376 °	37.633376 °
				-121.190765 °	-121.190765 °
DWR ID	20497				
Comment Code					
Inspector Comment					
FS_ID:20728 DS_ID:20497 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.6 feet below the crown. Concrete U-shaped headwalls on each end. Flap gate on the waterside (WS) end. Flashboards in slots on the landside (LS) headwall. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 4.20)]. FS Date: 9/17/2013					

Photo 1 of 3 : UCIP\_FA\_2018\_20728\_34895.jpg



Concrete headwall at ditch on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/29/2018 10/29/2018	Sterling York

LM Start	4.16	Rating **	A/W	Issue No.	975 (cont)
LM End	4.16	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.633376 °	37.633376 °
				-121.190765 °	-121.190765 °
DWR ID	20497				
Comment Code					
Inspector Comment					
FS_ID:20728 DS_ID:20497 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.6 feet below the crown. Concrete U-shaped headwalls on each end. Flap gate on the waterside (WS) end. Flashboards in slots on the landside (LS) headwall. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 4.20)]. FS Date: 9/17/2013					

LM Start	<b>4.16</b>	Rating **	A/W	Issue No.	<b>975 (cont)</b>
LM End	<b>4.16</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_20728\_34894.jpg



Concrete headwall on LS toe.

Photo 3 of 3 : UCIP\_FA\_2018\_20728\_34893.jpg



Headwall on WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/29/2018 10/29/2018	Sterling York

LM Start	4.22	Rating **	U	Issue No.	28
LM End	4.51	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Seepage / Sandboils			37.632448 °	37.630914 °
				-121.190601 °	-121.185914 °
DWR ID	DWR_RD2031_02_s_2017_28				
Comment Code					
Inspector Comment					
Raincoat applied to levee section and ditch cut about 12 feet from levee toe to intercept seepage.					

Photo 1 of 1 : FA\_2018\_RD2031\_308\_28\_20180918\_00014.jpg



View of the raincoat and seepage catch ditch near the levee.

LM Start	4.29	Rating **	A/W	Issue No.	1
LM End	5.97	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.631716 °	37.630765 °
				-121.189370 °	-121.159189 °
DWR ID	RD2031U02RM78.7				
Comment Code					
Inspector Comment					
10/04/2017: The erosion in the berm again was found further progressed toward levee toe.					
07/08/2016: The erosion in the berm was found further progressed toward levee toe.					
08/19/2015: No significant change observed.					
07/17/2014: The erosion has slightly expanded toward levee toe at two pocket locations.					
09/10/2013: The site has been visited. The erosion has expanded toward levee crest at two pocket locations.					
07/18/2012: No significant change observed on the site.					
08/18/2011: No significant change observed on the site. Dead trees and animal activities are visible. The closest point of the erosion site to the levee toe is about 100 ft.					
10/19/2010: There is active scouring occurring on the bank due to the nature of the flow and the lack of armor protection. There is also a fallen log immediately downstream of where the erosion has occurred and is protruding outward, possibly creating an eddy and scouring the bank. With the remaining 100-foot wide berm, the levee prism is not yet affected. However, the bank will continue to degrade, and eventually intrude into the levee prism if no protection is put in place. Erosion site is recommended for annual assessment and monitoring during flood events. [2017 Site ID:RD2031U02RM78.7]					

Photo 1 of 4 : FA\_2018\_RD2031\_308\_1\_20180918\_00001.jpg



Looking upstream of the erosion site.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/29/2018 10/29/2018	Sterling York

LM Start	4.29	Rating **	A/W	Issue No.	1 (cont)
LM End	5.97	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.631716 °	37.630765 °
				-121.189370 °	-121.159189 °
DWR ID	RD2031U02RM78.7				

**Comment Code**

**Inspector Comment**

10/04/2017: The erosion in the berm again was found further progressed toward levee toe.  
 07/08/2016: The erosion in the berm was found further progressed toward levee toe.  
 08/19/2015: No significant change observed.  
 07/17/2014: The erosion has slightly expanded toward levee toe at two pocket locations.  
 09/10/2013: The site has been visited. The erosion has expanded toward levee crest at two pocket locations.  
 07/18/2012: No significant change observed on the site.  
 08/18/2011: No significant change observed on the site. Dead trees and animal activities are visible. The closest point of the erosion site to the levee toe is about 100 ft.  
 10/19/2010: There is active scouring occurring on the bank due to the nature of the flow and the lack of armor protection. There is also a fallen log immediately downstream of where the erosion has occurred and is protruding outward, possibly creating an eddy and scouring the bank. With the remaining 100-foot wide berm, the levee prism is not yet affected. However, the bank will continue to degrade, and eventually intrude into the levee prism if no protection is put in place. Erosion site is recommended for annual assessment and monitoring during flood events. [2017 Site ID:RD2031U02RM78.7]

LM Start	<b>4.29</b>	Rating **	A/W	Issue No.	<b>1 (cont)</b>
LM End	<b>5.97</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 4 : FA\_2018\_RD2031\_308\_1\_20180918\_00002.jpg



Looking downstream of the erosion site.

Photo 3 of 4 : FA\_2018\_RD2031\_308\_1\_20180918\_00003.jpg



Close view of the pocket erosion.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/29/2018 10/29/2018	Sterling York

LM Start	4.29	Rating **	A/W	Issue No.	1 (cont)	
LM End	5.97	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.631716 °		37.630765 °
				-121.189370 °		-121.159189 °
DWR ID	RD2031U02RM78.7					
Comment Code						
Inspector Comment						
10/04/2017: The erosion in the berm again was found further progressed toward levee toe.						
07/08/2016: The erosion in the berm was found further progressed toward levee toe.						
08/19/2015: No significant change observed.						
07/17/2014: The erosion has slightly expanded toward levee toe at two pocket locations.						
09/10/2013: The site has been visited. The erosion has expanded toward levee crest at two pocket locations.						
07/18/2012: No significant change observed on the site.						
08/18/2011: No significant change observed on the site. Dead trees and animal activities are visible. The closest point of the erosion site to the levee toe is about 100 ft.						
10/19/2010: There is active scouring occurring on the bank due to the nature of the flow and the lack of armor protection. There is also a fallen log immediately downstream of where the erosion has occurred and is protruding outward, possibly creating an eddy and scouring the bank. With the remaining 100-foot wide berm, the levee prism is not yet affected. However, the bank will continue to degrade, and eventually intrude into the levee prism if no protection is put in place. Erosion site is recommended for annual assessment and monitoring during flood events. [2017 Site ID:RD2031U02RM78.7]						

Photo 4 of 4 : FA\_2018\_RD2031\_308\_1\_20180918\_00004.jpg



Close view of the erosion.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/29/2018 10/29/2018	Sterling York

LM Start	4.70	Rating **	M	Issue No.	976
LM End	4.70	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.630815 °	37.630815 °
				-121.182416 °	-121.182416 °
DWR ID	24676				
Comment Code					
Inspector Comment					
FS_ID:22872 DS_ID:24676 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 16-inch polyvinyl chloride (PVC) irrigation pipe through the levee, 6 feet below the crown. Headwall on the landside (LS) toe. FS Date: 9/17/2013					

LM Start	<b>4.70</b>	Rating **	M	Issue No.	<b>976 (cont)</b>
LM End	<b>4.70</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_22872\_39036.jpg



Concrete headwall at outlet on LS toe.

Photo 2 of 3 : UCIP\_FA\_2018\_22872\_39035.jpg



Concrete debris placed over pipe location on WS shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/29/2018 10/29/2018	Sterling York

LM Start	4.70	Rating **	M	Issue No.	976 (cont)	
LM End	4.70	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.630815 °	37.630815 °	
				-121.182416 °	-121.182416 °	
DWR ID	24676					
Comment Code						
Inspector Comment						
FS_ID:22872						
DS_ID:24676						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: No permit identified for this crossing.						
FIELD_STRUCT_DESC: 16-inch polyvinyl chloride (PVC) irrigation pipe						
through the levee, 6 feet below the crown. Headwall on the landside						
(LS) toe.						
FS Date: 9/17/2013						

Photo 3 of 3 : UCIP\_FA\_2018\_22872\_39034.jpg



PVC pipe partially visible on WS toe.

LM Start	5.63	Rating **	M	Issue No.	977
LM End	5.63	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.630779 °	37.630779 °
				-121.165402 °	-121.165402 °
DWR ID	24677				
Comment Code					
Inspector Comment					
FS_ID:22873 DS_ID:24677 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 24-inch polyvinyl chloride (PVC) irrigation pipe through the levee, 5 feet below the crown. Slide gate at the waterside (WS) shoulder. 6-inch steel riser on the WS shoulder. FS Date: 9/17/2013					

Photo 1 of 2 : UCIP\_FA\_2018\_22873\_39038.jpg



Concrete turnouts visible off LS toe along road.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/29/2018 10/29/2018	Sterling York

LM Start	5.63	Rating **	M	Issue No.	977 (cont)	
LM End	5.63	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.630779 °	37.630779 °	
				-121.165402 °	-121.165402 °	
DWR ID	24677					
Comment Code						
Inspector Comment						
FS_ID:22873 DS_ID:24677 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 24-inch polyvinyl chloride (PVC) irrigation pipe through the levee, 5 feet below the crown. Slide gate at the waterside (WS) shoulder. 6-inch steel riser on the WS shoulder. FS Date: 9/17/2013						

Photo 2 of 2 : UCIP\_FA\_2018\_22873\_39037.jpg



Slide gate and vent at concrete headwall on canal at WS shoulder.

LM Start	5.93	Rating **	M	Issue No.	978
LM End	5.93	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.630760 °	37.630760 °
				-121.159951 °	-121.159951 °
DWR ID	20503				
Comment Code					
Inspector Comment					
FS_ID:20745 DS_ID:20503 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Gasline may not have enough cover. FIELD_STRUCT_DESC: 8-inch gas line of an unknown material through the levee, 1 foot below the crown. Sign on the landside (LS) toe. Pipe visible at canal. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 5.99)]. FS Date: 9/17/2013					

Photo 1 of 2 : UCIP\_FA\_2018\_20745\_34961.jpg



Gasline marker on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/29/2018 10/29/2018	Sterling York

LM Start	5.93	Rating **	M	Issue No.	978 (cont)	
LM End	5.93	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.630760 °	37.630760 °	
				-121.159951 °	-121.159951 °	
DWR ID	20503					
Comment Code						
Inspector Comment						
FS_ID:20745 DS_ID:20503 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Gasline may not have enough cover. FIELD_STRUCT_DESC: 8-inch gas line of an unknown material through the levee, 1 foot below the crown. Sign on the landside (LS) toe. Pipe visible at canal. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 5.99)]. FS Date: 9/17/2013						

Photo 2 of 2 : UCIP\_FA\_2018\_20745\_34960.jpg



Gasline visible at crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
----------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------